

LISTING OF THE CLAIMS:

1. (Currently Amended) A microwave generator (11) with a short-circuit spark gap (13) between ~~eolinearly~~ collinearly arranged spark gap electrodes (14-15), wherein
~~characterised in that~~

the spark gap (13) is in the form of an untriggered short-circuit switch with a pointed electrode (15) and is arranged opposite an electrode (14) which is in the form of a spherical cap and by way of which ~~there can be discharged~~ a charge storage means (43) having a pot-shaped outer electrode (45) is dischargeable, through the end portion (41) of which electrode (45) there projects the pointed electrode (15), and in concentric relationship therewith an inner electrode (48) which is bulbous in a bottle shape and the end portion of which is the spherical cap-shaped electrode (14) and ~~which is connected eolinearly by way of its~~ collinearly through a bottle neck-shaped reduced portion (17) thereof to a frustoconical radiating device (18) disposed substantially outside of the outer electrode (45), wherein a plurality of such microwave generators (11) are arranged in a group (10) and are electrically connected in parallel with each other with their charge storage means (43).

2. (Currently Amended) A microwave generator according to claim 1 ~~characterised in that~~
the inner electrode (48) adjoins the smaller base of the radiating device (18) ~~by way of~~ through a bottle neck-shaped reduced portion (17) thereof and extends into the region of the reduced portion (17) between the outer electrode (45).

3. (Currently Amended) A microwave generator according to ~~claim 1 or claim 2~~
~~characterised in that various ones~~ wherein various of the spark gaps (13) are adjusted to mutually
different response behaviours behaviors.

4. (Currently Amended) A microwave generator according to ~~one of the preceding claims~~
~~characterised in that~~ claim 1, wherein said charge storage means (43) are adjusted to different
capacitances.

5. (Currently Amended) A microwave generator according to ~~one of the preceding claims~~
~~characterised in that~~ claim 1, wherein individual ones of the charge storage means (43) ~~can be~~ are
charged up inductively delayed in relation to others from a capacitor array (33).

6. (Currently Amended) A microwave generator according to ~~one of the preceding claims~~
~~characterised in that~~ claim 1, wherein the radiating devices (18) are arranged at an internal
spacing in front of a common reflector plate (50).

7. (Currently Amended) A microwave generator according to ~~the preceding claim~~
~~characterised in that~~ claim 6, wherein individual said radiating devices (18) are arranged at
differing distances in front of the reflector plate (50).

8. (Currently Amended) A microwave generator according to ~~one of the preceding claims characterised in that~~ claim 1, wherein the pointed electrode (15) of the spark gap (13) is adjustable with respect to the ~~curved~~ cap-shaped electrode (14) through the end portion (41) of the pot-shaped outer electrode (45).

9. (Currently Amended) A microwave generator according to ~~one of the preceding claims characterised in that~~ claim 1, wherein the outer electrodes (45) by ~~way of~~ their end portions (41) and the inner electrodes (48) by ~~way of~~ the radiating devices (18) are structurally held to mounting brackets (46 and 47 respectively) and are electrically connected in parallel with each other.